

*Notolister nodicornis*, sp. n.

Ovalis, parum depressus, niger, nitidus, supra punctulatus, antennis pedibusque piceis; fronte anterieus depressa, haud striata; pronoto stria marginali integra; clytris striis subhumerali nulla, dorsalibus 1-3 integris, 4-5 apicali brevibus, suturali antico evanescente; propygidio pygidioque distincte punctatis; prosterno bistriato, lobo punctato; mesosterno sinuato, stria integra; tibiis anticis 7-8-spinosis.

L.  $3\frac{1}{4}$  mill.

This small species is very distinct from the others described in being flatter and finely though distinctly punctured above. The prosternal striae do not meet anteriorly and the fourth dorsal stria has a basal puncture and the fifth an elongate mark, which indicate appendages. The mesosternal stria is fine and marginal at the sinuosity only, but it is continued laterally to the posterior edge of the metasternum.

The trivial name is suggested by a prominence on the upper edge of the scape of the antenna, a character common to all the species of *Notolister*.

*Hab.* Cape of Amber, Madagascar.

## XIV.—On new Thyrididae and Pyralidae.

By Sir GEORGE F. HAMPSON, Bart., B.A., F.Z.S., &c.

[Concluded from p. 269.]

## Genus NEOBSTRA, nov.

Proboscis present; palpi porrect extending about the length of head, the second joint fringed with hair above, the third downcurved; maxillary palpi filiform; antennae of male ciliated. Fore wing with vein 3 from well before angle of cell; 4, 5 stalked; 6 from upper angle; 7, 8 stalked, 9 absent; 10, 11 from cell. Hind wing with vein 3 from near angle of cell; 4, 5 coincident; 6, 7 from upper angle.

*Neobstra ferruginealis*, sp. n.

♂. Yellow suffused with ferruginous red; wings irrorated with pink scales. Fore wing with pink antemedial line angled outwards below costa, then oblique; a black point at upper angle of cell; a very obliquely curved postmedial pink line arising on costa from near apex, the medial part of costa with series of black points on upper and under sides.

Hind wing with traces of an oblique pink antemedial line met at inner margin by an oblique postmedial line not reaching costa; cilia of both wings pink. Underside of fore wing with the disk tinged with pink.

*Hab.* NATAL (*Spiller*). *Exp.* 18 mm. Type in Coll. Rothschild.

(1 a.) *Bostra dipectinialis*, sp. n.

Antennæ of male with two pairs of fine branches on each joint.

♂. Head and thorax dark red-brown; abdomen paler. Fore wing dark red-brown thickly irrorated with black; an indistinct interrupted wavy antemedial dark line with some white scales on it; a prominent black discoidal spot; a curved highly dentate postmedial line almost reduced to a double series of black and white points; a terminal series of black points; cilia pinkish. Hind wing fuscous brown with traces of curved postmedial line; a terminal series of black points; cilia pinkish.

♀ rather greyer brown.

*Hab.* MASHONALAND, Salisbury (*Marshall, Dobbie*), 5 ♂, 1 ♀ type, Bulawayo (*Eyles*), 1 ♀; TRANSVAAL, Pretoria (*Distant*), 1 ♀. *Exp.*, ♂ 36, ♀ 38 mm.

(1 b.) *Bostra pyroxantha*, sp. n.

♂. Antennæ bipectinate; fore wing with vein 7 from beyond 9.

Head and thorax yellow and pink; abdomen yellow. Fore wing pink with diffused yellow antemedial band, bent inwards and narrowing to costa; an indistinct discoidal yellow spot; an oblique postmedial line slightly angled below costa and at vein 2. Hind wing yellow.

*Hab.* MASHONALAND, Salisbury (*Marshall*), 1 ♂ type. *Exp.* 26 mm.

(1 c.) *Bostra glaucalis*, sp. n.

Antennæ of male bipectinate.

♂. Grey-white irrorated with bright ferruginous; head, prothorax, and fore legs ferruginous. Fore wing with the costal area ferruginous; a curved ferruginous antemedial line; a discoidal point; the postmedial line excurved between veins 5 and 3; a terminal series of striæ. Hind wing with oblique antemedial line; the postmedial line excurved between veins 5 and 3 and ending near tornus; a terminal line; cilia of both wings chequered with ferruginous at base.

*Hab.* GERM. E. AFRICA, Dar-es-Salaam. *Exp.* 16-20 mm.  
Type in Coll. Rothschild.

(1 d.) *Bostra sentalis*, sp. n.

Antennæ of male bipectinate with short branches, the apex simple.

Head pale, slightly tinged with rufous, the palpi red-brown at sides; thorax brownish grey, the tegulæ, patagia, pectus, and mid legs tinged with rufous and irrorated with black, hind legs whitish; abdomen pale brownish grey slightly irrorated with black. Fore wing grey tinged with rufous and sparsely irrorated with black; the base of costa with some black; a diffused black fascia in submedian fold from near base to middle, sometimes with a downturned hook at extremity; a black discoidal spot with dark streak from it to postmedial line; a maculate black postmedial line, excurved from costa to vein 3, then angled inwards in submedian fold, almost obsolete towards costa and inner margin; a terminal series of rather triangular black spots. Hind wing white with a faint brown tinge; a terminal series of more or less developed black spots; cilia with blackish line through them on apical half. Underside of fore wing suffused with fuscous, the costal area ferruginous red; hind wing with the costal area suffused with red and in female irrorated with black, strongly towards apex, a black point at upper angle of cell and maculate postmedial line, stronger towards costa and bent outwards at vein 5.

*Hab.* BR. E. AFRICA, Athi-ya-Mawc (*Betton*), 1 ♂, 1 ♀ type; Nairobi (*Crawshay*), 1 ♀. *Exp.* 30-32 mm.

(5 a.) *Bostra ochrigrammalis*, sp. n.

♀. Head and thorax rufous, the lower part of frons whitish; fore tarsi fuscous with pale rings, the mid and hind tarsi whitish; abdomen greyish tinged with rufous and irrorated with black, the ventral surface pale. Fore wing red-brown irrorated with black; antemedial line pale defined on each side by brown, slightly angled outwards below costa, then obliquely curved; a slight brown discoidal spot; postmedial line pale defined on each side by brown, oblique, almost straight; cilia with deeper brown line near base and fuscous line at middle. Hind wing fuscous brown with a reddish tinge and slight dark irroration; a pale slightly sinuous postmedial line; cilia yellowish with a rufous line near base; the underside pale suffused with rufous and irrorated with brown, the postmedial line defined by brown on inner side.

*Hab.* NIGERIA, Old Calabar (*Crompton*), 2 ♀ type. *Exp.* 36 mm.

(5 b.) *Bostra flammalis*, sp. n.

♂. Bright fiery red : head and thorax with a crimson tinge. Fore wing with the costal area tinged with crimson and slightly irrorated with black : a strong, slightly sinuous, fuscous antemedial line; an oblique discoidal bar; post-medial line strong, obliquely curved. Hind wing with strong, oblique, fuscous antemedial line, joined at inner margin by the curved postmedial line.

*Hab.* CEYLON, Maskeliya (*de Mowbray*), 2 ♂ type. *Exp.* 32 mm.

(5 c.) *Bostra conflualis*, sp. n.

♀. Head and thorax fiery red; abdomen pale red. Fore wing fiery red sparsely irrorated with black; the ante- and postmedial lines white, the former excurved, the latter incurved, confluent in submedian interspace, then slightly separating towards inner margin, the area between them below the cell and towards inner margin suffused with purplish grey, the medial part of costa with some white points. Hind wing with the basal half whitish slightly tinged with red, the terminal half strongly suffused with red; a faint pale medial line; cilia with fuscous line near base and fuscous tips; the underside with fuscous irroration, the medial line dark.

*Hab.* CAPE COLONY, Grahamstown, 1 ♀ type. *Exp.* 32 mm.

(6 a.) *Bostra rufimarginalis*, sp. n.

♂. Head and thorax greyish flesh-colour; abdomen pale yellowish, the ventral surface suffused and irrorated with black. Fore wing greyish flesh-colour; a small black discoidal spot; the terminal area rufous suffused with fuscous towards termen, its inner edge curved inwards below vein 5; cilia blackish at base, greyish at tips. Hind wing pale orange-red; cilia blackish at base, greyish at tips; the underside with black point at upper angle of cell, the costal and terminal areas slightly irrorated with black.

*Hab.* CAPE COLONY, 1 ♂ type. *Exp.* 30 mm.

(10 a.) *Bostra suffusalis*, sp. n.

♂. Pale reddish; head and thorax suffused with purplish

fuscous. Fore wing strongly suffused with purplish fuscous; very faint traces of sinuous antemedial and curved postmedial lines. Hind wing thickly irrorated with fuscous; traces of a curved postmedial line; both wings with terminal series of black points and a line at base of cilia, which are reddish.

*Hab.* SIERRA LEONE (*Clements*), 1 ♂ type. *Exp.* 30 mm.

(11 a.) *Bostra ferrealis*, sp. n.

♂. Ferruginous red. Fore wing with the ante- and postmedial lines pale, the former straight and somewhat oblique, the latter angled outwards on veins 5 and 1 and inwards below vein 2. Hind wing pale reddish yellow; an indistinct pale curved postmedial line, with the area beyond it redder; cilia of both wings pale, with a rufous line through them.

*Hab.* TRANSVAAL, Barberton (*Rendall*), 1 ♂ type. *Exp.* 18 mm.

(12 a.) *Bostra pygmaea*, sp. n.

♂. Black-brown mixed with grey. Fore wing with curved, sinuous, antemedial whitish line, slightly angled inwards on vein 1; five white points on medial part of costa; a sinuous white postmedial line, incurved above vein 5 and below vein 2 and excurved between them; some obscure terminal dark points. Hind wing fuscous.

*Hab.* E. AFRICA, Teita, 3000 feet (*Jackson*), 1 ♂ type; Manda I. (*Jackson*), 1 ♂. *Exp.* 12 mm.

(12 b.) *Bostra ochrigraphalis*, sp. n.

♂. Head and tegulae yellow; antennae brownish except at base; thorax glossy brown, the outer side of tibiae and tarsi whitish; abdomen glossy black-brown, the anal tuft yellow. Fore wing glossy brown; a yellowish-white medial line, obsolescent towards costa, excurved at the veins and incurved in the interspaces; postmedial line with small triangular yellow patch on costa, then very faint, excurved at middle; cilia yellow, with brown line near base and brown tips. Hind wing grayish brown; cilia yellowish, with a brown line through them.

*Hab.* UGANDA, Kētoma (*Doggett*), 3 ♂ type. *Exp.* 18 mm.

(13 a.) *Bostra tenebralis*, sp. n.

♂. Head yellowish, the antennae fuscous; thorax fuscous

brown, the hind tibiae and tarsi whitish; abdomen greyish suffused with brown and irrorated with fuscous. Fore wing grey-brown with a faint reddish tinge and thickly irrorated with black; a diffused black antemedial line defined by whitish on inner side, excurved from below costa to submedian fold, where it is slightly angled inwards; the medial part of costa with slight pale points with black streaks between them; a black discoidal spot; postmedial line black defined by whitish on outer side, minutely dentate, incurved from costa to vein 5, where it is angled outwards, then angled inwards in submedian fold; a terminal series of prominent black spots; cilia with a dark line through them. Hind wing greyish suffused and irrorated with fuscous brown; pale sinuous antemedial and medial lines, obsolescent towards costa, with blackish suffusion between them and approximated at inner margin; a terminal series of small black spots; cilia pale, with strong black line through them.

*Hab.* UGANDA, Ketoma (*Doygett*), 2 ♂ type. *Exp.* 18 mm.

(13 b.) *Bostra scotalis*, sp. n.

♀. Head and thorax dark red-brown suffused with fuscous; pectus and legs paler, the fore tibia on outer side and tarsus whitish; abdomen fuscous brown, the ventral surface paler. Fore wing red-brown thickly irrorated with black; antemedial line defined by greyish on inner side, oblique, slightly incurved between submedian fold and vein 1; the medial part of costa with some pale points; a black discoidal spot; postmedial line defined by greyish on outer side, minutely dentate, excurved between veins 5 and 2 and incurved in submedian fold; a terminal series of small black lunules; cilia with fuscous lines near base and at middle. Hind wing fuscous brown; a curved grey antemedial line; postmedial line grey defined by dark brown on inner side, sinuous and ending near tornus; a slight dark terminal line; cilia with fine pale line at base.

*Hab.* YORUBALAND, Ogbomoso (*Carter*), 1 ♀ type. *Exp.* 24 mm.

(13 c.) *Bostra flavilinealis*, sp. n.

Antennae of male ciliated; fore wing narrow.

♂. Head yellow; antennae rufous; thorax and abdomen rufous; pectus, legs, and ventral surface of abdomen pale. Fore wing rufous irrorated with fuscous; an ill-defined yellowish antemedial line, oblique from costa to submedian

fold, then incurved; the medial part of costa with yellow points; a postmedial yellowish band incurved below vein 4. Hind wing brown with darker irroration.

*Hab.* KASHMIR, Dras (*Leech*), 1 ♂ type. *Exp.* 16 mm.

(18 a.) *Bostra leucostigmalis*, sp. n.

♀. Head, thorax, and abdomen ochreous tinged with dull rufous; palpi blackish, with white band at extremity of second joint; abdomen with black segmental lines, the terminal half tinged with purplish fuscous and with a white dorsal band on subterminal segment. Fore wing grey suffused strongly with purple; some rufous at base; an indistinct, oblique, pale, waved antemedial line; some white points on medial part of costa; a black discoidal spot; a large elliptical hyaline white spot beyond lower angle of cell, with cupreous red on its outer side; a whitish postmedial line obtusely angled below costa, then bent inwards to the hyaline spot, and acutely angled outwards on vein 1; terminal area blackish with purple and cupreous reflections. Hind wing grey suffused with purple; some red below the cell; a bar-shaped white spot from lower angle of cell to vein 1, defined on outer side by the waved postmedial line, which is indistinct towards costa and inner margin, black beyond the spot, followed by a cupreous patch; terminal area fuscous towards apex; both wings with black terminal line intersected with cupreous points; cilia blackish mixed with white at tips.

*Hab.* GERM. E. AFRICA, Mikindani (*Reimer*). *Exp.* 18 mm. Type in Coll. Rothschild.

(18 b.) *Bostra xanthorhodalis*, sp. n.

♀. Head, thorax, and abdomen bright crimson, third joint of palpi and frons yellow; pectus and femora pale crimson, tibiæ and tarsi and ventral surface of abdomen yellow. Fore wing bright crimson; the medial area bright yellow bounded by the fine black ante- and postmedial lines, the former obliquely curved, the latter excurved between veins 5 and 2. Hind wing bright crimson; the medial area bright yellow bounded by the fine black subbasal and postmedial lines, the latter obliquely excurved from costa to vein 2, then retracted.

*Hab.* NATAL, Durban (*Leigh*), 1 ♀ type. *Exp.* 22 mm.

(23.) *Bostra metaxanthialis*, sp. n.

♂. Head and thorax reddish brown mixed with fuscous; mid tarsi white; abdomen ochreous irrorated with fuscous and suffused towards extremity. Fore wing fuscous mixed with purple-red; cilia purple-red, fuscous at base and extremity. Hind wing pale yellow, the termen tinged with fuscous, traces of a postmedial line near vein 2; cilia with fuscous line near base.

♀. Fore wing much redder; the basal area ochreous irrorated with red and fuscous and with curved outer edge; a dark spot at upper angle of cell; a pale minutely waved postmedial line oblique below vein 4.

*Hab.* CEYLON, Horton Plains (*Mackwood*), 1 ♂, 1 ♀ type. *Exp.* 24 mm.

(1 a.) *Sindris bipunctalis*, sp. n.

♀. Head and thorax olive-grey; abdomen orange. Fore wing olive-grey; vein 1 and the veins beyond the cell streaked with whitish; a white patch in end of cell with a heart-shaped black spot before it and a rounded spot beyond it; the interspaces between veins 5 and 8 blackish. Hind wing orange; the costa and apex slenderly dark; a dark terminal line from apex to vein 2.

*Hab.* NIGERIA, Warri (*Roth*). *Exp.* 36 mm. Type in Coll. Rothschild.

(2 a.) *Sindris holochralis*, sp. n.

♂. Head and thorax brownish ochreous; abdomen ochreous white. Fore wing pale brownish ochreous, the costal edge and a fine terminal line darker; cilia whitish. Hind wing pale yellowish, the apical area tinged with brown to submedian fold.

*Hab.* SIERRA LEONE (*Clements*), 1 ♂ type. *Exp.* 18 mm.

(4.) *Sindris deltoidalis*, sp. n.

Both wings with veins 4, 5 from cell, approximate for a short distance in hind wing; palpi of both sexes upturned, about five times length of head and recurved over it.

Head and thorax pale pinkish brown; patagia slightly edged with orange; abdomen orange. Fore wing pale fuscous brown suffused with red. Hind wing orange, with terminal fuscous band, broad at costa, narrowing to a point at tornus.



*Hab.* SIERRA LEONE (*Clements*), 1 ♀ type; YORUBALAND, Ogbomosa (*Carter*), 1 ♀; ASHANTI, Kumassi (*Whiteside*), 1 ♂. *Exp.* 30 mm.

GENUS GRAMMIPHLEBIA, NOV.

Proboscis minute; palpi downcurved, extending about twice the length of head; maxillary palpi triangularly sealed; frons without tuft of hair; antennæ of male bipectinate, with short branches to about half length, then ciliated, the branches rather shorter in female. Fore wing rather narrow, the termen evenly curved; vein 3 from angle of cell; 4, 5 stalked; 6 from upper angle; 7, 8, 9 stalked, 7 from beyond 9; 10, 11 from cell. Hind wing with vein 3 from angle of cell; 4, 5 stalked; 6, 7 from upper angle.

*Grammiphlebia obliqualis*, sp. n.

Head and thorax yellow-brown; tegulæ and patagia edged with whitish; abdomen yellow-brown mixed with whitish and irrorated with black. Fore wing yellow-brown irrorated with black; the veins streaked with yellowish white to the postmedial line; the costa with series of alternating whitish and black striæ; the lines strong, yellowish white; the first line almost medial, acutely angled outwards to lower angle of cell, then very oblique, defined by blackish on outer side; postmedial line defined by blackish on inner side, arising from costa near apex, very oblique and slightly excurved at middle; a terminal series of dark striæ; cilia with fine whitish line at base and intersected with whitish. Hind wing pure white, with some black striæ on inner half of termen and near base of cilia; the underside with some dark irroration on costal area and medial and postmedial black bars from costa.

*Hab.* BR. E. AFRICA, Nairova (*Betton*), 2 ♂, 2 ♀ type; Gwelil (*Betton*), 2 ♀. *Exp.* 26-30 mm.

(3 a.) *Constantia leucogrammalis*, sp. n.

Head and thorax grey tinged with olive-green; abdomen brownish grey slightly irrorated with fuscous. Fore wing greyish suffused with olive-green and with slight dark irroration, the medial area and the area in curve of postmedial line darker; antemedial line silvery white, strong, slightly angled outwards below costa, then oblique; postmedial line strong, silvery white, arising towards apex, then curved inwards and

upwards to upper angle of cell, forming a loop, then interrupted, slightly excurved below lower angle of cell, then oblique to inner margin near antemedial line; a terminal series of dark striæ; cilia whitish. Hind wing white, with more or less brown on termen, in female forming a well-defined band, with some cupreous red at extremity of vein 2.

*Hab.* BR. E. AFRICA, Simba (*Crawshay*), 1 ♂; Nairobi (*Crawshay*), 1 ♂ type; Eb Uru (*Betton*), 1 ♂; Athi-ya-Mawe (*Betton*), 1 ♀. *Exp.* 18-22 mm.

(4a.) *Constantia phaeagonalis*, sp. n.

♀. Head and thorax grey tinged with brown; tarsi fuscous, with pale rings; abdomen grey. Fore wing grey irrorated with brown; the veins with slight dark streaks; a dark streak in submedian fold to postmedial line; a subbasal dark striga on inner area; antemedial line blackish defined by white on inner side, obliquely curved; a triangular dark mark beyond the cell, with dark streaks on the veins bounded by the postmedial line, which is black, defined by white on outer side, dentate at veins 5, 4, 3, then angled inwards to near middle of wing and outwards on vein 1; a fine black terminal line; cilia white at base and with fine dark line near tips. Hind wing grey tinged with brown; cilia whitish, with fine dark line near tips.

*Hab.* CAPE COLONY, Deelfontein (*Col. Sloggett*), 1 ♀ type. *Exp.* 22 mm.

(4b.) *Constantia poliopastalis*, sp. n.

*Constantia canifusalis*, Hmps. Trans. Ent. Soc. 1900, p. 381, pl. iii. fig. 16 (♀ nec ♂).

Head and thorax white irrorated with fuscous; mid and hind tarsi tinged with ochreous; abdomen white tinged with ochreous at base. Fore wing white largely suffused with ochreous and blue-grey and irrorated with black; a small black spot below base of costa; antemedial line double, fuscous, filled in with white, oblique from costa to below cell, angled inwards in submedian fold, then oblique to inner margin; a fuscous spot in middle of cell and another on discocellulars, with a white patch between them; postmedial line fuscous, defined by white on outer side, slightly bent outwards and dentate at veins 6, 5, 4, then interrupted by an oblique blue-grey fascia from lower angle of cell to above tornus, bent inwards to below end of cell and angled outwards in submedian fold; a terminal series of blackish striæ.

Hind wing white more or less strongly suffused and irrorated with fuscous; some blackish striæ usually on termen.

*Hab.* ALGERIA, Hammam-es-Salahin (*Walsingham*), 3 ♂, 4 ♀ type. *Exp.* 24-30 mm.

*C. canifusalis* with pectinated antennæ is probably confined to Syria.

(10 a.) *Constantia aglossalis*, sp. n.

♀. Head ochreous, the antennæ black; thorax fuscous brown; pectus and legs greyish; abdomen greyish irrorated with black. Fore wing ochreous almost entirely suffused and irrorated with fuscous brown; antemedial line defined by ochreous on inner side, oblique from costa to median nervure, then incurved; the medial part of costa with some grey points; a small black discoidal spot; postmedial line defined by ochreous on outer side, excurved from costa to vein 5, then incurved; a slight brown terminal line. Hind wing greyish suffused and irrorated with brown; cilia pale, with a brown line near base; the underside pale, irrorated with brown, a discoidal spot and diffused curved postmedial line.

*Hab.* CAPE COLONY, Deelfontein (*Col. Sloggett*), 3 ♀ type. *Exp.* 20 mm.

(11 a.) *Constantia fuscalis*, sp. n.

♀. Head and base of tegulæ pale ochreous yellow; antennæ blackish; thorax blackish brown irrorated with grey; fore and mid tibiæ and the tarsi whitish; abdomen greyish thickly irrorated with dark brown, the extremity of anal tuft ochreous. Fore wing dark brown thickly irrorated with grey; traces of an oblique grey antemedial line; the medial part of costa with slight grey points; postmedial line very ill-defined, greyish, excurved between veins 5 and 2, then angled inwards in submedian fold. Hind wing greyish suffused with dull reddish brown; a fine dark terminal line; cilia pale brown at base, whitish at tips; the underside whiter, suffused and irrorated with brown, a diffused sinuous postmedial line defined by whitish on outer side.

*Hab.* ADEN, Haithalhim (*Yerbury*), 1 ♀ type. *Exp.* 18 mm.

(1 a.) *Actenia obliquisignalis*, sp. n.

♂. Antennæ bipectinate. Dull brown mixed with white. Fore wing with oblique silvery-white antemedial mark from

just below subcostal nervure to above inner margin, shaped like an axe, its upper part being expanded on outer side, some diffused black scales beyond it; the veins beyond the cell streaked with dark brown, with the interspaces between them pale; a white subterminal line angled outwards at vein 6, obliquely excurved to vein 3, then incurved; cilia white and brown. Hind wing ochreous suffused with brown, the termen darker.

*Hab.* NATAL (*Spiller*). *Exp.* 22 mm. Type in Coll. Rothschild.

(2 a.) *Actenia rhodesialis*, sp. n.

♀. Head and thorax red-brown slightly irrorated with fuscous; pectus and legs grey-brown; abdomen grey-brown irrorated with fuscous and slightly tinged with rufous. Fore wing red-brown irrorated with fuscous; a curved fuscous antemedial line; a black discoidal spot; a rather diffused fuscous postmedial line excurved between veins 5 and 3; a terminal series of slight black points; cilia with a fine pale line at base. Hind wing greyish tinged with rufous and irrorated with fuscous; a fine pale line at base of cilia.

*Hab.* MASHONALAND (*Marshall, Dobbie*), 2 ♀ type. *Exp.* 26 mm.

(3 a.) *Actenia achromalis*, sp. n.

Head, thorax, and abdomen pale brownish grey irrorated with black; palpi blackish at sides. Fore wing pale brownish grey irrorated with black; antemedial line blackish, rather diffused, oblique from costa to submedian fold, where it is angled outwards, then incurved; the medial part of costa with series of whitish points, with black streaks between them; a black discoidal spot; postmedial line black, rather diffused, defined by whitish on outer side towards costa, excurved from costa to vein 4, angled inwards in submedian fold, some blackish suffusion beyond it on costa; a fine blackish terminal line; cilia pale, with a blackish line through them. Hind wing white, the terminal area irrorated with black; a curved blackish postmedial line; a fine dark terminal line.

*Hab.* NATAL, Durban (*Leigh*), 3 ♂ type; CAPE COLONY, 1 ♀. *Exp.* 18-22 mm.

(4 a.) *Actenia leucoplāgia*, sp. n.

♀. Deep vinous red; palpi pale. Fore wing brownish in parts; traces of a waved medial line bent inwards below

vein 2; the postmedial line obscure, angled just below costa, then very oblique and slightly sinuous, with a large white patch beyond it between vein 5 and tornus; traces of some medial white points on costa and of a spot at origin of postmedial line; cilia chequered white and black. Hind wing fuscous brown, with curved dark postmedial line, the area beyond it tinged with vinous red; cilia white with black points.

*Hab.* BORNEO, Sandakan (*Pryer*), 1 ♀ type. *Exp.* 24 mm.

(7 a.) *Cledeobia styphlotricha*, sp. n.

Head, thorax, and abdomen white tinged with olive-brown; palpi tinged with fuscous at sides; abdomen suffused with fuscous above and with white segmental lines. Fore wing olive-grey, clothed with long rough scales and with very long spatulate scales on the inner margin; an antemedial whitish line, acutely angled below median nervure and with some diffused black beyond its costal half; the postmedial whitish line oblique, incurved below vein 4 and joined by a diffused whitish V-shaped mark from discocellulars; the veins from cell and vein 1 whitish defined by black scales; two indistinct terminal lines and a line through the cilia which are whitish. Hind wing whitish, almost entirely suffused with brownish fuscous; a curved subterminal white line; cilia white, with dark line through them; the area below the cell clothed with long whitish hair.

*Hab.* MASHONALAND (*Dobbie*), 1 ♂; ZULULAND, Lt. Tugela R. (*Reynolds*), 1 ♀; NATAL (*Heale*), 1 ♀ type, Durban, 1 ♀. *Exp.* 26-30 mm.

(7 b.) *Cledeobia palpangulalis*, sp. n.

♀. Head and thorax whitish strongly irrorated with fuscous; abdomen ochreous whitish, with diffused fuscous dorsal bands, the ventral surface white irrorated with black. Fore wing ochreous white very thickly irrorated with fuscous brown; a slight white streak in submedian fold below middle of cell with some black scales on it; a terminal series of obscure black striæ; cilia white mixed with fuscous and with two ill-defined fuscous lines through them. Hind wing fuscous black, with white patch in, below, and just beyond end of cell; the inner area whitish; cilia pure white. Underside white; fore wing with the costal area and terminal area to vein 2 irrorated with fuscous, a diffused fuscous streak below base of cell, a large rounded black patch beyond

the cell; hind wing with the area below the cell suffused with fuscous, a large rounded black patch beyond the cell extending nearly to termen.

*Hab.* TRANSCASPIA, Tedschen Oasis (*Hansen*), 1 ♀ type. *Exp.* 30 mm.

(13.) *Cledeobia bipunctalis*, sp. n.

♀. Head, thorax, and abdomen very pale rufous. Fore wing very pale rufous; antemedial line acutely angled outwards in submedian fold and with obscure dark spot on it below the cell, very oblique towards costa and inner margin; a small dark discoidal spot; postmedial line brown, obliquely excurved from costa to vein 3, then slightly incurved; a slight brown terminal line. Hind wing whitish tinged with rufous; a slight brown postmedial line from costa to vein 2.

*Hab.* ALGERIA, Hammam-es-Salahin (*Walsingham*), 1 ♀ type. *Exp.* 30 mm.

(1 a.) *Tyndis dentilinealis*, sp. n.

Patagia of male with tuft of hair extending to beyond metathorax.

Head and thorax pale reddish brown irrorated with black; abdomen grey-brown irrorated with fuscous and with dorsal black bands on second and third segments. Fore wing pale reddish brown irrorated with fuscous; the antemedial line fuscous, angled outwards below the cell; a small black discoidal spot; postmedial line dentate, slightly incurved from costa to vein 5, oblique to submedian fold, then erect; a terminal series of black points. Hind wing pale fuscous, with a slight reddish tinge and some darker irroration; an indistinct, curved, rather diffused postmedial line; a terminal series of black points; the underside paler, irrorated with fuscous, the postmedial line more distinct.

*Hab.* GOLD COAST (*W. H. Johnston*), 1 ♂; NIGERIA, Warri (*Roth*), 1 ♀, Old Calabar (*Crompton*), 2 ♂, 3 ♀ type. *Exp.* 20-26 mm.

(1 b.) *Tyndis proteanalis*, sp. n.

Patagia of male with the tuft of hair not extending beyond metathorax.

Head and thorax greyish fuscous more or less tinged with rufous, to pale rufous; abdomen grey-brown more or less tinged with rufous and suffused with fuscous, the second and

third segments with blackish dorsal bands. Fore wing olive grey-brown more or less tinged with rufous and irrorated with black, to greyish ochreous tinged with rufous, or fuscous black, the basal and terminal areas usually darker; ante-medial line diffused fuscous, slightly or strongly excurved below the cell; a small black discoidal spot; the medial part of costa with faint grey points; postmedial line diffused fuscous, sometimes defined by grey on outer side, sometimes with its outer edge somewhat dentate, oblique below vein 4 or more or less strongly incurved in submedian interspace, then bent outwards again; a more or less prominent terminal series of black points or a fine rather punctiform line; cilia greyish more or less mixed with rufous and black. Hind wing whitish more or less suffused with fuscous brown, especially on terminal half, sometimes tinged with rufous; a fuscous postmedial line slightly defined by whitish on outer side, somewhat angled outwards at vein 5, then oblique; a terminal series of black points or fine line; the underside with spot at upper angle of cell.

*Hab.* BR. E. AFRICA, Nairobi (*Betton*), 1 ♂, 1 ♀, Eb Uru (*Betton*), 1 ♂, Kikuyu (*Crawshay*), 3 ♂ type, Machakos (*Crawshay*), 1 ♀; MASHONALAND, Salisbury (*Marshall, Dobbie*), 1 ♂, 3 ♀. *Exp.* 26-32 mm.

(4.) *Tyndis pictimarginalis*, sp. n.

Maxillary palpi somewhat dilated with scales. Head, thorax, and abdomen orange-yellow, thorax and abdomen suffused with black; wings grey thickly irrorated and suffused with fuscous black. Fore wing with basal yellow spot; an obscure black spot in cell and curved subterminal line; both wings with leaden-silvery terminal line; the cilia bright orange-yellow at base, the tips grey intersected with fuscous.

*Hab.* SIERRA LEONE (*Clements*), 1 ♂ type; NIGERIA, Old Calabar (*Crompton*), 2 ♀. *Exp.*, ♂ 22, ♀ 30 mm.

(5.) *Tyndis megistalis*, sp. n.

♀. Head and thorax red-brown; tarsi with slight pale rings; abdomen orange, with diffused rufous dorsal bands. Fore wing red-brown with a golden gloss and some dark irroration; the first line almost medial, pale, oblique from costa to median nervure, then erect and slightly angled outwards on vein 1; an obscure grey and blackish discoidal lunule; postmedial line near termen, pale, slightly defined by fuscous on inner side, waved, excurved from below costa

to vein 2, incurved in submedian interspace and slightly angled outwards on vein 1; a fine brown terminal line; cilia yellow tinged with rufous. Hind wing golden-orange with a terminal series of brown striae. Underside of fore wing yellow, the cell and costal area towards apex tinged with fiery red.

*Hab.* BR. E. AFRICA, Eb Urru (*Betton*), 1 ♀ type. *Exp.* 54 mm.

#### GENUS MELANALIS, NOV.

Proboscis aborted, small; palpi porrect, straight, extending about the length of head; maxillary palpi filiform; frons smooth; antennae of female ciliated. Fore wing with vein 3 from near angle of cell; 4, 5 shortly stalked; 6 from upper angle; 7, 8, 9 stalked, 7 from beyond 9; 10, 11 from cell. Hind wing with vein 3 from close to angle of cell; 4, 5 stalked; 6, 7 from upper angle.

#### *Melanalis perfusca*, sp. n.

♀. Deep fuscous black; frons and vertex of head ochreous white; tibiae and tarsi banded with ochreous. Fore wing with ochreous antemedial band with irregular edges, narrowing below cell; a postmedial spot on costa and two points above inner margin. Hind wing black-brown.

*Hab.* NATAL, Weenen. *Exp.* 18 mm. Type in Coll. Rothschild.

### XLVI.—*Descriptions and Records of Bees.*—X. By T. D. A. COCKERELL, University of Colorado.

#### *Halictoides fallugiæ*, sp. n.

*Halictoides fimbriatus*, var., Ckll. Entom. News, 1901, p. 41.

♀.—Length about  $7\frac{1}{2}$  mm.

Black, with no blue tints; pubescence white, rather abundant on head and thorax, a few fuscous hairs on scutellum; head seen from in front not far from round; clypeus projecting but not produced, shining, convex, with very few large punctures, lateral lower corners produced downwards, dentiform; front and vertex with dense small punctures; flagellum ferruginous beneath except at base, the apical part very stout; mesothorax very finely punctured; anterior part